The Hatch

**Project Title** – The Hatch a crawlspace access product.

**Product description** – The Hatch is an out of box crawlspace access system which installs quickly, adapts to any form of wood frame construction and trims any type of floor covering.

**Project Goal** – Develop product solution to be presented to specific industry Manufacturers in hopes of moving the product to the New and DIY construction marketplace.

**Product application** – Residential construction, for both new and remodel markets.

**Current solution** – The typical solution for crawlspace access is created with a framed opening and a plywood lid covered with flexible type floor coverings. In most cases the current method of construction is outside the limits of the Residential Building Code.

**Design Features** –
Adapts to any residential wood floor construction assembly
Trims any floor covering type
Lid component is self-supporting, lockable and can be removed for increased access
Integrated ladder assembly
Integrated electrical Junction box
Lift assistance
LED light safety signal

**Engineering Decisions**-
Evaluate potential product construction material and configuration
Develop product design to solve required design features
Evaluation of loading and stress design based on product goals

**Educational opportunities** – The Hatch product project will offer students the opportunity to learn about differing residential construction assemblies, residential codes and current construction techniques. The goal is to develop a product that will solve an overlooked deficiency in the current marketplace, allowing student to investigate and apply accumulated engineering/educational experiences and knowledge.